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Delta & Pine Land Co.

Scott, Miss.

JAN 24 1956
U.S.COMPARISON BETWEEN DELTAPINE STAPLE AND DELTAPINE 15

In the past five years we have conducted ten strains and variety tests between Deltapine Staple and Deltapine 15. In these tests the average yield of lint per acre of Deltapine Staple was 5.2% greater than that of Deltapine 15. At the same time, the lint percentage of Deltapine Staple has averaged nearly 2 percentage points lower than that of Deltapine 15 but Deltapine Staple has a higher lint percentage than any other cotton of equal staple length. Under good conditions Deltapine Staple can be expected to produce 1 1/8" staple compared to 1 1/16" to 1 3/32" for Deltapine 15. Under very favorable conditions we can expect some 1 5/32" from Deltapine Staple. In our five-year comparison Deltapine Staple has averaged 1.14 in length compared to 1.08 for Deltapine 15 (Fibrograph). This difference is approximately 1/16". Three of the five years have been very dry. We are using here the Fibrograph measurements because they are less subject to personal error than the staple length of cotton classers.

The tensile strength of Deltapine Staple has averaged slightly higher than that of Deltapine 15 and the Micronaire has shown it to be slightly coarser.

In the matter of earliness, Deltapine Staple has proved to be slightly later in opening as measured by the percent of the total crop harvested in the first picking -- 72% for Deltapine Staple vs. 76% for Deltapine 15.

In only one year out of the five (1950) has Deltapine 15 out-yielded Deltapine Staple; that was a very wet year. In 1954, which was an extremely dry year, the average yield of the two varieties in three tests was the same -- 656 pounds of lint for Deltapine Staple vs. 655 pounds of lint for Deltapine 15. In the other three seasons (1951-52-53), which were more favorable, Deltapine Staple out-yielded Deltapine 15 by a very considerable margin.

(Five-Year Average comparison)

	Yield of		Mean Length	Unif. Ratio	P.I.	Micro.	Earli-
	Lint Per Acre	Lint %					
Deltapine Staple	832	34.9	1.14	91	80	7.9	4.5 72%
Deltapine 15	791	36.8	1.08	87	80	7.7	4.3 76%

Early C. Ewing

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